WHAT IS CLAIMED

I	A method for managing information for an application program, wherein		
2	the information includes an information class having a plurality of attributes values,		
3	wherein the application program maintains multiple information class instances and		
4	wherein each instance includes at least one of the plurality of attribute values,		
5	comprising:		
6	receiving user input indicating a plurality of information class instances and for		
7	each information class instance at least one attribute value;		
8	generating a main directory for the application program;		
9	for each information class instance received from the user, performing:		
10	(i) generating a subdirectory from the main directory for the information		
11	class instance;		
12	(ii) for each received attribute value for the information class instance,		
13	generating one attribute file providing the at least one attribute value; and		
14	(iii) storing each generated attribute file in the subdirectory of the		
15	information class instance for which the attribute value is provided.		
1	2. The method of claim 1, further comprising:		
2	receiving a request for information on at least one requested attribute value for the		
3	information class instances; and		
4	in response to the request for information, performing for each information class		
5	instance:		
6	(i) accessing the subdirectory for the information class instance;		
7	(ii) determining whether the accessed subdirectory includes each		
8	requested attribute value in one attribute file in the subdirectory; and		
9	(iii) if the subdirectory includes each requested attribute value in one		
10	attribute file, then returning each requested attribute value from the attribute file.		

1	3. The method of claim 2, wherein the request for information further		
2	includes a criteria to apply to at least one of the requested attribute values, further		
3	comprising:		
4	determining whether the requested attribute value in the attribute file to which	h the	
5	criteria applies satisfies the criteria, wherein the attribute values for one information	class	
6	instance are not returned if the criteria for one attribute value of the information class	S	
7	instance is not satisfied.		
1	4. The method of claim 2, wherein the subdirectory does not include on	e	
2	attribute value if there is no attribute file for the attribute value.		
1	5. The method of claim 2, wherein returning the attribute value further		
2	comprises:		
3	generating the requested attribute values into a form, wherein the form inclu		
4	information on attribute values in attribute files in multiple subdirectories for information	nation	
5	class instances, and wherein the form is returned.		
1	6. The method of claim 5, wherein the form is implemented in a standa	rd	
2	document format capable of being rendered by a viewer program used to render		
3	documents retrieved from over a network.		
1	7. The method of claim 6, wherein the form is implemented as one of a		
2	HyperText Markup Language file or Extensible Markup Language (XML) file and	the	
3	viewer program comprises an Internet browser program.		

1 8. The method of claim 1, wherein at least one attribute file provides the 2 attribute value by embedding the attribute value in a file name of the attribute file.

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The method of claim 1, wherein at least one attribute file provides the 1 9. attribute value by inserting the attribute value within the attribute file. 2 The method of claim 1, wherein at least one attribute value is comprised 10. 1 of multiple component values. 2 The method of claim 10, wherein each of the multiple component values is 1 11. capable of being comprised of a plurality of multiple sub-component values. 2 The method of claim 1, wherein the information class comprises a first 1 12. information class and wherein a second information class is a subclass of the first 2 information class and has at least one attribute value, wherein there is one instance of the 3 second information class for each instance of the first information class, further 4 5 performing for each instance of the first information class: generating a subdirectory for the second information class in the subdirectory 6 generated for the first information class. 7 13. The method of claim 12, further comprising: 1 receiving user input for one attribute value for the second information class; and 2 generating one attribute file for the received user input in the subdirectory for the 3 second information class, wherein the attribute file provides the received attribute value. 4 The method of claim 12, wherein the attribute value for the second 1 14. 2 information class for which the attribute file was generated includes at least one attribute value from the first information class. 3 The method of claim 1, further comprising: 1 15.

receiving a request for statistical information on requested attribute values;

for each information class instance, performing:

4	(i) reading the attribute files for the requested attribute values to generate
5	information summarizing the attribute values;
6	(ii) and returning the information summarizing the attribute values.
1	16. A method for managing information on a plurality of projects, wherein
2	each project is capable of having a plurality of attribute values, comprising:
3	receiving user input on a plurality of projects and for each project at least one
4	attribute value;
5	generating a main directory;
6	for each project for which user input is received, performing:
7	(i) generating a subdirectory from the main directory for the project; and
8	(ii) for each received attribute value, generating one attribute file
9	providing the at least one attribute value.
1	17. The method of claim 16, wherein the attribute values for each project are
2	capable of comprising one or more of the following project attribute values: project
3	comments, a project manager, projected completion date, project purpose, project start
4	date, project actual completion date, project status, project holidays, and project
5	interrupts.
1	18. The method of claim 17, wherein the project interrupts attribute value in
2	the project interrupt file is comprised of multiple interrupt components, wherein each
3	interrupt component includes subcomponents indicating a type of interrupt, date of
4	interrupt, duration of interrupt, and interrupt comments.
1	19. The method of claim 16, further comprising:
2	receiving a request for information on at least one requested attribute value for the
3	project; and

4	in response to the request for information, performing for each project	
5	subdirectory;	
6	(i) accessing the project subdirectory;	
7	(ii) determining whether the accessed project subdirectory includes each	h
8	requested attribute value in one attribute file in the subdirectory;	
9	(iii) if the subdirectory includes each requested attribute value in one	
10	attribute file, then returning each requested attribute value from the attribute file	e.
1	20. The method of claim 19, wherein the request for information further	
2	includes a criteria to apply to the requested attribute values, wherein the criteria specif	ies
3	a status of the project, further comprising:	
4	determining whether the requested attribute value in the attribute file to which	the
5	criteria applies satisfies the criteria, wherein the attribute values for one project	
6	subdirectory are not returned if the criteria for one attribute value is not satisfied.	
1	21. The method of claim 16, further comprising:	
2	generating a calendar subdirectory for each project subdirectory, wherein the	
3	calendar subdirectory includes one calendar file for each day for which calendar	
4	information is provided for the project.	
1	22. The method of claim 21, wherein the calendar information for one day	and
2	one project is entered by a user.	
1	23. The method of claim 21, wherein the calendar information entered into)
2	one calendar file for one project comprises one attribute value received from the user	for
3	the project that is also entered into one attribute file in the project subdirectory.	
1	24. The method of claim 16, further comprising:	
2	receiving user input for at least one task for one project;	

3	for each task for which user input is received, generating a task subdirectory in		
4	the subdirectory for the project including the task; and		
5	for each received attribute value providing information on the task, generating at		
6	least one attribute file indicating each received attribute value.		
1	25. The method of claim 24, further comprising:		
2	receiving user input for one task indicating a number of subtasks;		
3	receiving user input indicating a percent completion for each subtask of the task;		
4	and		
5	for each received percent completion for one subtask, generating at least one		
6	attribute file indicating the percent completion of the subtask.		
1	26. A system for managing information for an application program, wherein		
2	the information includes an information class having a plurality of attributes values,		
3	wherein the application program maintains multiple information class instances and		
4	wherein each instance includes at least one of the plurality of attribute values,		
5	comprising:		
6	means for receiving user input indicating a plurality of information class instances		
7	and for each information class instance at least one attribute value;		
8	means for generating a main directory for the application program;		
9	means for performing, for each information class instance received from the user:		
10	(i) generating a subdirectory from the main directory for the information		
11	class instance;		
12	(ii) for each received attribute value for the information class instance,		
13	generating one attribute file providing the at least one attribute value; and		
14	(iii) storing each generated attribute file in the subdirectory of the		
15	information class instance for which the attribute value is provided.		

1	27. The system of claim 20, further comprising.		
2	means for receiving a request for information on at least one requested attribute		
3	value for the information class instances; and		
4	means for performing, in response to the request for information, for each		
5	information class instance:		
6	(i) accessing the subdirectory for the information class instance;		
7	(ii) determining whether the accessed subdirectory includes each		
8	requested attribute value in one attribute file in the subdirectory; and		
9	(iii) if the subdirectory includes each requested attribute value in one		
10	attribute file, then returning each requested attribute value from the attribute file.		
1	28. The system of claim 27, wherein the request for information further		
2	includes a criteria to apply to at least one of the requested attribute values, further		
3	comprising:		
4	means for determining whether the requested attribute value in the attribute file to		
5	which the criteria applies satisfies the criteria, wherein the attribute values for one		
6	information class instance are not returned if the criteria for one attribute value of the		
7	information class instance is not satisfied.		
1	29. The system of claim 27, wherein the means for returning the attribute		
2	value further performs:		
3	generating the requested attribute values into a form, wherein the form includes		
4	information on attribute values in attribute files in multiple subdirectories for informatio		
5	class instances, and wherein the form is returned.		
1	30. The system of claim 26, wherein the information class comprises a first		
2	information class and wherein a second information class is a subclass of the first		
3	information class and has at least one attribute value, wherein there is one instance of the		

value for the project; and

second information class for each instance of the first information class, wherein the 4 means for performing for each instance of the first information class further performs: 5 generating a subdirectory for the second information class in the subdirectory 6 generated for the first information class. 7 A system for managing information on a plurality of projects, wherein 1 31. each project is capable of having a plurality of attribute values, comprising: 2 means for receiving user input on a plurality of projects and for each project at 3 least one attribute value; 4 means for generating a main directory; 5 means for performing for each project for which user input is received: 6 (i) generating a subdirectory from the main directory for the project; and 7 (ii) for each received attribute value, generating one attribute file 8 providing the at least one attribute value. 9 The system of claim 31, wherein the attribute values for each project are 1 32. capable of comprising one or more of the following project attribute values: project 2 comments, a project manager, projected completion date, project purpose, project start 3 date, project actual completion date, project status, project holidays, and project 4 5 interrupts. The system of claim 32, wherein the project interrupts attribute value in 1 33. the project interrupt file is comprised of multiple interrupt components, wherein each 2 interrupt component includes subcomponents indicating a type of interrupt, date of 3 interrupt, duration of interrupt, and interrupt comments. 4 The system of claim 31, further comprising: 1 34. means for receiving a request for information on at least one requested attribute 2

4	means for performing, for each project subdirectory, in response to the request for
5	information:
6	(i) accessing the project subdirectory;
7	(ii) determining whether the accessed project subdirectory includes each
8	requested attribute value in one attribute file in the subdirectory;
9	(iii) if the subdirectory includes each requested attribute value in one
10	attribute file, then returning each requested attribute value from the attribute file.
1	35. The system of claim 31, further comprising:
2	means for generating a calendar subdirectory for each project subdirectory,
3	wherein the calendar subdirectory includes one calendar file for each day for which
4	calendar information is provided for the project.
1	36. The system of claim 31, further comprising:
2	means for receiving user input for at least one task for one project;
3	means for generating, for each task for which user input is received, a task
4	subdirectory in the subdirectory for the project including the task; and
5	means for generating, for each received attribute value providing information on
6	the task, at least one attribute file indicating each received attribute value.
1	37. The system of claim 36, further comprising:
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2	means for receiving user input for one task indicating a number of subtasks;
3	means for receiving user input indicating a percent completion for each subtask of
4	the task; and
5	means for generating, for each received percent completion for one subtask, at
6	least one attribute file indicating the percent completion of the subtask.

1	38. An article of manufacture including code for managing information for an		
2	application program, wherein the information includes an information class having a		
3	plurality of attributes values, wherein the application program maintains multiple		
4	information class instances and wherein each instance includes at least one of the		
5	plurality of attribute values, wherein the code causes operations to be performed		
6	comprising:		
7	receiving user input indicating a plurality of information class instances and for		
8	each information class instance at least one attribute value;		
9	generating a main directory for the application program;		
10	for each information class instance received from the user, performing:		
11	(i) generating a subdirectory from the main directory for the information		
12	class instance;		
13	(ii) for each received attribute value for the information class instance,		
14	generating one attribute file providing the at least one attribute value; and		
15	(iii) storing each generated attribute file in the subdirectory of the		
16	information class instance for which the attribute value is provided.		
1	39. The article of manufacture of claim 38, further comprising:		
2	receiving a request for information on at least one requested attribute value for the		
3	information class instances; and		
4	in response to the request for information, performing for each information class		
5	instance:		
6	(i) accessing the subdirectory for the information class instance;		
7	(ii) determining whether the accessed subdirectory includes each		
8	requested attribute value in one attribute file in the subdirectory; and		
9	(iii) if the subdirectory includes each requested attribute value in one		
10	attribute file, then returning each requested attribute value from the attribute file.		

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- 1 40. The article of manufacture of claim 39, wherein the request for
 2 information further includes a criteria to apply to at least one of the requested attribute
 3 values, further comprising:
 4 determining whether the requested attribute value in the attribute file to which the
 5 criteria applies satisfies the criteria, wherein the attribute values for one information class
 6 instance are not returned if the criteria for one attribute value of the information class
 7 instance is not satisfied.
- 1 41. The article of manufacture of claim 39, wherein the subdirectory does not 2 include one attribute value if there is no attribute file for the attribute value.
 - 42. The article of manufacture of claim 39, wherein returning the attribute value further comprises:
- generating the requested attribute values into a form, wherein the form includes information on attribute values in attribute files in multiple subdirectories for information class instances, and wherein the form is returned.
- 1 43. The article of manufacture of claim 42, wherein the form is implemented 2 in a standard document format capable of being rendered by a viewer program used to 3 render documents retrieved from over a network.
- 1 44. The article of manufacture of claim 43, wherein the form is implemented 2 as one of a HyperText Markup Language file or Extensible Markup Language (XML) file 3 and the viewer program comprises an Internet browser program.
- 1 45. The article of manufacture of claim 38, wherein at least one attribute file 2 provides the attribute value by embedding the attribute value in a file name of the 3 attribute file.

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- The article of manufacture of claim 38, wherein at least one attribute file 1 46. provides the attribute value by inserting the attribute value within the attribute file. 2 The article of manufacture of claim 38, wherein at least one attribute value 47. 1 is comprised of multiple component values. 2 The article of manufacture of claim 38, wherein each of the multiple 1 48. component values is capable of being comprised of a plurality of multiple sub-component 2 3 values. The article of manufacture of claim 38, wherein the information class 49. 1 comprises a first information class and wherein a second information class is a subclass 2 of the first information class and has at least one attribute value, wherein there is one 3 instance of the second information class for each instance of the first information class, 4 further performing for each instance of the first information class: 5 generating a subdirectory for the second information class in the subdirectory 6 generated for the first information class. 7 The article of manufacture of claim 49, further comprising: 50. 1 receiving user input for one attribute value for the second information class; and 2 generating one attribute file for the received user input in the subdirectory for the 3 second information class, wherein the attribute file provides the received attribute value. 4 The article of manufacture of claim 49, wherein the attribute value for the 1 51. second information class for which the attribute file was generated includes at least one 2
 - The article of manufacture of claim 38, further comprising: 52. receiving a request for statistical information on requested attribute values; 2

attribute value from the first information class.

3	for each information class instance, performing:
4	(i) reading the attribute files for the requested attribute values to generate
5	information summarizing the attribute values;
6	(ii) and returning the information summarizing the attribute values.
1	An article of manufacture including code for managing information on a
2	plurality of projects, wherein each project is capable of having a plurality of attribute
3	values, wherein the code causes operations to be performed comprising:
4	receiving user input on a plurality of projects and for each project at least one
5	attribute value;
6	generating a main directory;
7	for each project for which user input is received, performing:
8	(i) generating a subdirectory from the main directory for the project; and
9	(ii) for each received attribute value, generating one attribute file
10	providing the at least one attribute value.
1	54. The article of manufacture of claim 53, wherein the attribute values for
2	each project are capable of comprising one or more of the following project attribute
3	values: project comments, a project manager, projected completion date, project purpose,
4	project start date, project actual completion date, project status, project holidays, and
5	project interrupts.
1	55. The article of manufacture of claim 54, wherein the project interrupts
2	attribute value in the project interrupt file is comprised of multiple interrupt components,
3	wherein each interrupt component includes subcomponents indicating a type of interrupt
4	date of interrupt, duration of interrupt, and interrupt comments.

1	56.	The article of manufacture of claim 53, further comprising:	
2	receiv	ing a request for information on at least one requested attribute value for the	
3	project; and		
4	in resp	ponse to the request for information, performing for each project	
5	subdirectory;		
6		(i) accessing the project subdirectory;	
7		(ii) determining whether the accessed project subdirectory includes each	
8	requested attribute value in one attribute file in the subdirectory;		
9		(iii) if the subdirectory includes each requested attribute value in one	
10	attribu	ate file, then returning each requested attribute value from the attribute file.	
1	57.	The article of manufacture of claim 56, wherein the request for	
2	information f	further includes a criteria to apply to the requested attribute values, wherein	
3	the criteria specifies a status of the project, further comprising:		
4	determ	nining whether the requested attribute value in the attribute file to which the	
5	criteria applie	es satisfies the criteria, wherein the attribute values for one project	
6	subdirectory are not returned if the criteria for one attribute value is not satisfied.		
1	58.	The article of manufacture of claim 53, further comprising:	
2	genera	ating a calendar subdirectory for each project subdirectory, wherein the	
3	calendar subdirectory includes one calendar file for each day for which calendar		
4	information is	s provided for the project.	
1	59.	The article of manufacture of claim 58, wherein the calendar information	
2	for one day as	nd one project is entered by a user.	
1	60.	The article of manufacture of claim 58, wherein the calendar information	

2 entered into one calendar file for one project comprises one attribute value received from

- 3 the user for the project that is also entered into one attribute file in the project
- 4 subdirectory.
- 1 61. The article of manufacture of claim 53, further comprising:
- 2 receiving user input for at least one task for one project;
- for each task for which user input is received, generating a task subdirectory in
- 4 the subdirectory for the project including the task; and
- for each received attribute value providing information on the task, generating at
- 6 least one attribute file indicating each received attribute value.
- 1 62. The article of manufacture of claim 61, further comprising:
- 2 receiving user input for one task indicating a number of subtasks;
- receiving user input indicating a percent completion for each subtask of the task;
- 4 and

- for each received percent completion for one subtask, generating at least one attribute file indicating the percent completion of the subtask.
- 1 63. A computer readable medium including information for an application
- 2 program, wherein the information includes an information class having a plurality of
- 3 attributes values, wherein the application program maintains multiple information class
- 4 instances and wherein each instance includes at least one of the plurality of attribute
- 5 values, comprising:
- a main file directory for the application program;
- 7 one subdirectory from the main directory for each information class instance; and
- 8 one attribute file for each attribute value for each information class instance,
- 9 wherein each attribute file provides one attribute value and is in the subdirectory of the
- information class instance for which the attribute value is provided.

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- 1 64. The computer readable medium of claim 63, wherein at least one attribute 2 file provides the attribute value by embedding the attribute value in a file name of the 3 attribute file.
- 1 65. The computer readable medium of claim 63, wherein at least one attribute 2 file provides the attribute value by inserting the attribute value within the attribute file.
- 1 66. The computer readable medium of claim 63, wherein the information class
 2 comprises a first information class and wherein a second information class is a subclass
 3 of the first information class and has at least one attribute value, wherein there is one
 4 instance of the second information class for each instance of the first information class,
 5 further comprising:
 6 a subdirectory for the second information class for each first information class in
 - a subdirectory for the second information class for each first information class in the subdirectory generated for the first information class.
 - 67. A computer readable medium including information on a plurality of projects, wherein each project is capable of having a plurality of attribute values, comprising:
- 4 a main directory;
- a subdirectory from the main directory for the project; and
- one attribute file for each attribute value providing the at least one attribute value.
- 1 68. The computer readable medium of claim 67, wherein the attribute values 2 for each project are capable of comprising one or more of the following project attribute
- 3 values: project comments, a project manager, projected completion date, project purpose,
- 4 project start date, project actual completion date, project status, project holidays, and
- 5 project interrupts.

1	69. The computer readable medium of claim 67, further comprising:
2	a calendar subdirectory for each project subdirectory, wherein the calendar
3	subdirectory includes one calendar file for each day for which calendar information is
4	provided for the project.
1	70. The computer readable medium of claim 57, further comprising:
2	a task subdirectory in the subdirectory for the project including each task for
3	which user input is received; and
4	one attribute file indicating a received attribute value for each received attribute
5	value providing information on the task.